



AGENDA TITLE:

Adopt resolution awarding the purchase of polemount and padmount transformers

(\$52,519.51) (EUD)

MEETING DATE:

December 15, 2004

PREPARED BY:

Electric Utility Director

RECOMMENDED ACTION: That the City Council adopt a resolution awarding the bids for the purchase of polemount and padmount transformers to the bidders whose proposals and equipment meet City of Lodi specifications, and whose transformers are expected to yield the lowest

overall life-cycle costs:

Polemounts:

15 ea 25kVA

GE Supply Co, North Highlands

\$ 9,261.11

Padmounts:

2 ea 112.5 kVA

Wesco Distribution, San Leandro

\$ 8,229.95

4 ea 150kVA

Wesco Distribution, San Leandro

\$16,696.94

3 ea 300kVA

\$18,331.51

Western States Electric, Portland, OR

\$52,519.51

BACKGROUND INFORMATION: On May 21, 2003, the City Council authorized the Electric Utility Department and the Purchasing Division to advertise for bids as necessary to meet the Electric Utility Department's requirements for polemount and padmount transformers through the fiscal year ending June 30, 2005.

On November 24, 2004 bids were opened for two sizes of polemount and three sizes of padmount transformers, and life-cycle costs were evaluated. (Life-cycle costs are the combined total of purchase price plus cost of operation based on estimated power loss during the projected life of the transformer.) Proposals are also evaluated on the basis of compliance with equipment and bid specifications. Failure to comply with both may lead to disqualification of the bid. A summary of the bid evaluation is attached as Exhibit A.. Staff recommends awarding only one size of polemount transformer, the 25kVA units to GE Supply Company, at this time. Staff anticipates returning to Council on January 5, 2005 with a recommendation for the 37.5kVA units.

Some of the transformers are planned for use in a commercial development on Auto Center Drive, the Meridian development on Kettleman Lane, and for individual building pads in the Lowe's Center. The balance of the order will be used to replenish inventory of replacement units.

FUNDING:

Electric Utility Department 2003-2005 Financial Plan and Budget, Line Extensions,

Business Unit #161651, Page E-41

James R Krueger, Finance Director

Alan N Vallow, Electric Utility

Attachment: Exhibit A

Prepared by Joel Harris, Purchasing Officer

cc: EUD Electrical Engineer

APPROVED:

Keeter, Interim City Manager

Bid Opening: November 24, 2004

Polemount

Tax (factor): 1.0775 No Load Loss \$/watt: 3.75 Primary Winding: 12,000 Volt Line-to-Line

November 24, 2004

No Load Loss \$/watt: 3.75 Load Loss \$/watt: 1.25

| Bid Item 1: 25kVA, 120/240 Volt, Single Phase Conventi   | onal Pole  |   |   |  |   | Num  | ber of units:  | 15  |   |   | 45                                     | 500   |
|--|--|---|---|--|---|--|--|---|---|---|--|---|
| Vendor   | Unit<br>Price \$   | Extended Price \$   | Price<br>w/tax \$   | No Load<br>Loss<br>(watts)             | Load<br>Loss<br>(watts)                       | No Load<br>Loss value                                    | Load<br>Loss value   | Cost of Losses \$   | Life Cycle<br>Cost \$   | Delivery<br>(weeks)                                 | Height (inches)                        | Weight<br>(pounds)                            |
| GE Supply Kuhlman Electric c/o Sierra Sales Howard Industries, Inc. WESCO Distribution, Inc. Central Moloney, Inc. c/o Stephens, McCarthy, Lancaster Western States Electric, Inc. General Pacific, Inc. | 573.00<br>610.00<br>603.00<br>542.00<br>632.00<br>644.00<br>744.87 | 8,595.00<br>9,150.00<br>9,045.00<br>8,130.00<br>9,480.00<br>9,660.00<br>11,173.05 | 9,261.11<br>9,859.13<br>9,745.99<br>8,760.08<br>10,214.70<br>10,408.65<br>12,038.96 | 56<br>65<br>65<br>63<br>63<br>61<br>61 | 309<br>256<br>269<br>346<br>288<br>288<br>237 | 3,656.25<br>3,656.25<br>3,543.75<br>3,543.75<br>3,431.25 | 5,793.75<br>4,800.00<br>5,043.75<br>6,487.50<br>5,400.00<br>5,400.00<br>4,443.75 | 8,943.75<br>8,456.25<br>8,700.00<br>10,031.25<br>8,943.75<br>8,831.25<br>7,875.00 | 18,204.86<br>18,315.38<br>18,445.99<br>18,791.33<br>19,158.45<br>19,239.90<br>19,913.96 | 14<br>8-10<br>10-12<br>8-10<br>16<br>11-13<br>10-12 | 22<br>32<br>32<br>38<br>36<br>37<br>41 | 361<br>394<br>383<br>317<br>401<br>379<br>489 |
|  |  |   |   |  |   |  |  |   |   |   |  |   |
| Bid Item 2: 37.5kVA, 120/240 Volt, Single Phase Conver<br>(Item 2 will be recommended for award on January 5, 2)   |  | e   |   |  |   | Num  | nber of units:   | 10  |   |   | 48                                     | 625   |
| · · · · · · · · · · · · · · · · · · ·  |  | Extended Price \$   | Price<br>w/tax \$   | No Load<br>Loss<br>(watts)             | Load<br>Loss<br>(watts)                       | No Load  | ber of units:  Load  Loss value  | 10 Cost of Losses \$  | Life Cycle<br>Cost \$   | Delivery<br>(weeks)                                 | 48<br>Height<br>(inches)               | 625<br>Weight<br>(pounds)                     |

1

Bid Opening: November 24, 2004

PadmountTax (factor):1.0775Primary Winding:12,000 Volt, Delta Connected

No Load Loss \$/watt: 3.75
November 24, 2004 Load Loss \$/watt: 1.25

| Bid Item 1: 112.5 kVA, 208Y/120 Volt, Th  | ree Phase  | Pad   |  |                               |                                      | Nu  | mber of units:   | 2   |                                       |                                  | 65                        | >2.0                    |
|---|--|---|--|-------------------------------|--------------------------------------|---|--|---|---------------------------------------|----------------------------------|---------------------------|-------------------------|
| Vendor  | Unit   | Extended  | Price                                  | No Load                       | Load                                 | No Load   | Load   | Cost of   | Life Cycle                            | Delivery                         | Height                    | Impedance               |
|   | Price \$   | Price \$  | w/tax \$                               | Loss (watts)                  | Loss (watts)                         | Loss value  | Loss value   | Losses \$   | Cost \$                               | (weeks)                          | (inches)                  | %                       |
| WESCO Distribution  | 3,819.00   | 7,638.00  | 8,229.95                               | 289                           | 837                                  | 2,167.50  | 2,092.50   | 4,260.00  | 12,489.95                             | 12-14                            | 44                        | 2.620                   |
| Howard Industries, Inc.   | 3,603.00   | 7,206.00  | 7,764.47                               | 247                           | 1242                                 | 1,852.50  | 3,105.00   | 4,957.50  | 12,721.97                             | 7-9                              | 45                        | 2.300                   |
| Western States Electric, Inc.   | 4,149.00   | 8,298.00  | 8,941.10                               | 251                           | 946                                  | 1,882.50  | 2,365.00   | 4,247.50  | 13,188.60                             | 11-13                            | 50                        | 3.950                   |
| G E Supply  | 4,170.00   | 8,340.00  | 8,986.35                               | 257                           | 1116                                 | 1,927.50  | 2,790.00   | 4,717.50  | 13,703.85                             | 15                               | 48                        | 2.940                   |
| General Pacific Inc.  | 4,340.78   | 8,681.56  | 9,354.38                               | 233                           | 1055                                 | 1,747.50  | 2,637.50   | 4,385.00  | 13,739.38                             | 12-14                            | 49                        | 3.300                   |
| Central Moloney, Inc. (c/o Stephens, Mc   | 7,014.00   | 14,028.00                                       | 15,115.17                              | 170                           | 1248                                 | 1,275.00  | 3,120.00   | 4,395.00  | 19,510.17                             | 16                               | 65                        | 2.110                   |
| Contra Moloney, Inc. (We dispitelle, Me   | ŕ  | ·   |  |                               |                                      |   |  |   |                                       |                                  |                           |                         |
| Bid Item 2: 150 kVA, 208Y/120 Volt, Thre  | ee Phase Pa  | ad,   |  |                               |                                      | Nu  | mber of units:   | 4   |                                       |                                  | 65                        | >2.0                    |
| Bid Item 2: 150 kVA, 208Y/120 Volt, Thre  |  | •   | Price                                  | No Load                       | Load                                 |   |  |   | Life Cycle                            | Delivery                         |                           |                         |
|   | ee Phase Pa<br>Unit<br>Price \$                      | ad,<br>Extended<br>Price \$                     | Price<br>w/tax \$                      | No Load<br>Loss (watts)       | Load<br>Loss (watts)                 | No Load   | mber of units:  Load  Loss value                       | 4 Cost of Losses \$   | Life Cycle<br>Cost \$                 | Delivery<br>(weeks)              | 65<br>Height<br>(inches)  | >2.0<br>Impedance<br>%  |
| Bid Item 2: 150 kVA, 208Y/120 Volt, Thre  | Unit   | Extended  |  |                               |                                      | No Load   | Load   | Cost of   | •                                     | •                                | Height                    | Impedance<br>%          |
| Bid Item 2: 150 kVA, 208Y/120 Volt, Three   | Unit<br>Price \$                                     | Extended Price \$                               | w/tax \$                               | Loss (watts)<br>289           | Loss (watts)                         | No Load<br>Loss value                                     | Load<br>Loss value                                     | Cost of Losses \$   | Cost \$                               | (weeks)                          | Height (inches)           | Impedance<br>%          |
| Bid Item 2: 150 kVA, 208Y/120 Volt, Three Vendor WESCO Distribution   | Unit<br>Price \$<br>3,874.00                         | Extended<br>Price \$<br>15,496.00               | w/tax \$<br>16,696.94                  | Loss (watts)<br>289           | Loss (watts)<br>1500                 | No Load<br>Loss value<br>4,335.00                         | Load<br>Loss value<br>7,500.00                         | Cost of Losses \$   | Cost \$ 28,531.94                     | (weeks)                          | Height (inches)           | Impedance<br>%<br>3.650 |
| Bid Item 2: 150 kVA, 208Y/120 Volt, Three  Vendor  WESCO Distribution  Howard Industries, Inc.  Western States Electric, Inc.  General Pacific Inc. | Unit<br>Price \$<br>3,874.00<br>3,992.00             | Extended Price \$ 15,496.00 15,968.00           | w/tax \$<br>16,696.94<br>17,205.52     | Loss (watts) 289 256          | Loss (watts) 1500 1629               | No Load<br>Loss value<br>4,335.00<br>3,840.00             | Load<br>Loss value<br>7,500.00<br>8,145.00             | Cost of<br>Losses \$<br>11,835.00<br>11,985.00              | Cost \$ 28,531.94 29,190.52           | (weeks)<br>12-14<br>7-9          | Height (inches)           | 3.650<br>2.300<br>3.130 |
| Bid Item 2: 150 kVA, 208Y/120 Volt, Three Vendor  WESCO Distribution Howard Industries, Inc. Western States Electric, Inc.                          | Unit<br>Price \$<br>3,874.00<br>3,992.00<br>4,383.00 | Extended Price \$ 15,496.00 15,968.00 17,532.00 | w/tax \$ 16,696.94 17,205.52 18,890.73 | Loss (watts)  289 256 325 324 | Loss (watts)<br>1500<br>1629<br>1205 | No Load<br>Loss value<br>4,335.00<br>3,840.00<br>4,875.00 | Load<br>Loss value<br>7,500.00<br>8,145.00<br>6,025.00 | Cost of<br>Losses \$<br>11,835.00<br>11,985.00<br>10,900.00 | Cost \$ 28,531.94 29,190.52 29,790.73 | (weeks)<br>12-14<br>7-9<br>11-13 | Height (inches)  48 49 50 | Impedance % 3.650 2.300 |

1

Bid Opening: November 24, 2004

PadmountTax (factor):1.0775Primary Winding:12,000 Volt, Delta Connected

 No Load Loss \$/watt:
 3.75

 November 24, 2004
 Load Loss \$/watt:
 1.25

| Bid Item 3: 300 kVA, 208/120 Volt, Three   | Phase Pac  | i,   |  |                          |  | Nu   | ımber of units:   | 3  |  |                                      | 65                         | >3.5                             |
|--|--|--|--|--------------------------|--|--|---|--|--|--------------------------------------|----------------------------|----------------------------------|
| Vendor   | Unit<br>Price \$   | Extended Price \$  | Price<br>w/tax \$  | No Load<br>Loss (watts)  | Load<br>Loss (watts)                         | No Load<br>Loss value  | Load<br>Loss value  | Cost of Losses \$  | Life Cycle<br>Cost \$  | Delivery<br>(weeks)                  | Height (inches)            | Impedance %                      |
| Western States Electric, Inc. Howard Industries, Inc. WESCO Distribution General Pacific Inc. G E Supply Central Moloney, Inc. (c/o Stephens, Mc | 5,671.00<br>5,792.00<br>5,248.00<br>6,294.83<br>6,206.00<br>8,328.00 | 17,013.00<br>17,376.00<br>15,744.00<br>18,884.49<br>18,618.00<br>24,984.00 | 18,331.51<br>18,722.64<br>16,964.16<br>20,348.04<br>20,060.90<br>26,920.26 | 530<br>475<br>522<br>610 | 2111<br>2157<br>3067<br>2187<br>2831<br>3930 | 6,041.25<br>5,962.50<br>5,343.75<br>5,872.50<br>6,862.50<br>3,600.00 | 7,916.25<br>8,088.75<br>11,501.25<br>8,201.25<br>10,616.25<br>14,737.50 | 13,957.50<br>14,051.25<br>16,845.00<br>14,073.75<br>17,478.75<br>18.337.50 | 32,289.01<br>32,773.89<br>33,809.16<br>34,421.79<br>37,539.65<br>45,257.76 | 11-13<br>7-9<br>12-14<br>12-14<br>15 | 50<br>55<br>44<br>49<br>55 | 3.800<br>4.390<br>4.100<br>3.640 |

## RESOLUTION NO. 2004-273

# A RESOLUTION OF THE LODI CITY COUNCIL AWARDING THE BIDS FOR THE PURCHASE OF POLEMOUNT AND PADMOUNT TRANSFORMERS

WHEREAS, in answer to notice duly published in accordance with law and the order of this City Council, sealed bids were received and publicly opened on November 24, 2004, at 11:00 a.m. for the purchase of polemount and padmount transformers for the Electric Utility Department, described in the specifications therefore approved by the City Council on May 21. 2003: and

WHEREAS, said bids have been compared, checked, and tabulated and a report thereof filed with the City Manager as shown on Exhibit A attached; and

WHEREAS, the City Manager recommends the award of the bids for the various types and sizes of polemount and padmount transformers for the Electric Utility Department be made to the bidders whose proposal and equipment meet City of Lodi specifications and whose transformers are expected to yield the lowest overall life-cycle costs, listed as follows:

\$ 9,261.11 Polemounts: 15 ea 25kVA GE Supply Co, North Highlands Padmounts: 2 ea 112.5 kVA Wesco Distribution, San Leandro \$ 8.229.95 4 ea 150kVA Wesco Distribution, San Leandro \$16,696.94 Western States Electric, Portland, OR 3 ea 300kVA \$18,331.51 \$52.519.51

NOW, THEREFORE, BE IT RESOLVED by the Lodi City Council that the award of the bids for the purchase of polemount and padmount transformers for the Electric Utility Department be and the same is hereby awarded to the lowest responsible bidders, as listed above, in the total amount of \$52,519.51.

Dated: December 15, 2004

I hereby certify that Resolution No. 2004-273 was passed and adopted by the City Council of the City of Lodi in a regular meeting held December 15, 2004, by the following vote:

AYES: COUNCIL MEMBERS - Hansen, Hitchcock, Johnson, Mounce, and

Mayor Beckman

NOES: COUNCIL MEMBERS - None

ABSENT: COUNCIL MEMBERS - None

ABSTAIN: COUNCIL MEMBERS - None

SUSAN J. BLACKSTON

x. Soluelt

City Clerk

Bid Opening: November 24, 2004

Polemount

Tax (factor): 1.0775 No Load Loss \$/watt: 3.75 Primary Winding: 12,000 Volt Line-to-Line

November 24, 2004

Load Loss \$/watt: 3.75

| Bid Item 1: 25kVA, 120/240 Volt, Single Phase Convent  | ional Pole   |   |   |   |  | Num   | ber of units:  | 15   |   |                              | 45                              | 5               |
|--|--|---|---|---|--|---|--|--|---|------------------------------|---------------------------------|-----------------|
|  |  |   |   | No Load                                 | Load   |   |  |  |   |                              |                                 |                 |
| Vendor   | Unit<br>Price \$   | Extended Price \$   | Price<br>w/tax \$   | Loss<br>(watts)                         | Loss<br>(watts)                                    | No Load<br>Loss value   | Load<br>Loss value   | Cost of Losses \$  | Life Cycle<br>Cost \$                                     | Delivery<br>(weeks)          | Height (inches)                 | Weigh<br>(pound |
| E Supply   | 573.00   | 8,595.00  | 9,261.11  | 56                                      | 309  | 3,150.00  | 5,793.75   | 8,943.75   | 18,204.86   | 14                           | 22                              | 3               |
| uhlman Electric c/o Sierra Sales   | 610.00   | 9,150.00  | 9,859.13  | 65                                      | 256  | 3,656.25  | 4,800.00   | 8,456.25   | 18,315.38   | 8-10                         | 32                              |                 |
| oward Industries, Inc.   | 603.00   | 9,045.00  | 9,745.99  | 65                                      | 269  | 3,656.25  | 5,043.75   | 8,700.00   | 18,445.99   | 10-12                        | 32                              | ;               |
| ESCO Distribution, Inc.  | 542.00   | 8,130.00  | 8,760.08  | 63                                      | 346  | 3,543.75  | 6,487.50   | 10,031.25  | 18,791.33   | 8-10                         | 38                              | ;               |
| entral Moloney, Inc. c/o Stephens, McCarthy, Lancaster   | 632.00   | 9,480.00  | 10,214.70   | 63                                      | 288  | 3,543.75  | 5,400.00   | 8,943.75   | 19,158.45   | 16                           | 36                              |                 |
| estern States Electric, Inc.   | 644.00   | 9,660.00  | 10,408.65   | 61                                      | 288  | 3,431.25  | 5,400.00   | 8,831.25   | 19,239.90   | 11-13                        | 37                              |                 |
| eneral Pacific, Inc.   | 744.87   | 11,173.05   | 12,038.96   | 61                                      | 237  | 3,431.25  | 4,443.75   | 7,875.00   | 19,913.96   | 10-12                        | 41                              |                 |
|  |  |   |   |   |  |   |  |  |   |                              |                                 |                 |
|  |  | e   |   |   |  | Num   | ber of units:  | 10   |   |                              | 48                              |                 |
|  |  | Ð   |   | No Load                                 | Load   | Num   | ber of units:  | 10   |   |                              | 48                              |                 |
|  |  | e<br>Extended   | Price   | No Load<br>Loss                         | Load<br>Loss                                       | Num<br>No Load  | ber of units:  | 10<br>Cost of  | Life Cycle  | Delivery                     | 48<br>Height                    | Weig            |
| tem 2 will be recommended for award on January 5, 2  | 005)   |   |   |   |  |   | Load   |  | Life Cycle<br>Cost \$                                     | Delivery<br>(weeks)          |                                 |                 |
| tem 2 will be recommended for award on January 5, 2  Vendor  | 005)<br>Unit   | Extended Price \$   | Price   | Loss                                    | Loss   | No Load   | Load<br>Loss value<br>4,162.50   | Cost of  | Cost \$ 15,800.23   | (weeks)<br>8-10              | Height (inches)                 | Weig            |
| em 2 will be recommended for award on January 5, 2  Vendor  uhlman Electric c/o Sierra Sales   | 005)<br>Unit<br>Price \$   | Extended Price \$   | Price<br>w/tax \$   | Loss<br>(watts)<br>98<br>93             | Loss<br>(watts)<br>333<br>340                      | No Load<br>Loss value<br>3,675.00<br>3,487.50   | Load<br>Loss value<br>4,162.50<br>4,250.00                                     | Cost of Losses \$ 7,837.50 7,737.50                            | Cost \$ 15,800.23 15,904.95                               | (weeks)<br>8-10<br>10-12     | Height (inches)                 |                 |
| vem 2 will be recommended for award on January 5, 2  Vendor  uhlman Electric c/o Sierra Sales  oward Industries, Inc.  | Unit<br>Price \$<br>739.00<br>758.00<br>716.00                     | Extended Price \$ 7,390.00 7,580.00 7,160.00                            | Price<br>w/tax \$<br>7,962.73<br>8,167.45<br>7,714.90       | Loss<br>(watts)<br>98<br>93<br>82       | Loss<br>(watts)<br>333<br>340<br>414               | No Load<br>Loss value<br>3,675.00<br>3,487.50<br>3,075.00                                     | Load<br>Loss value<br>4,162.50<br>4,250.00<br>5,175.00                         | Cost of Losses \$ 7,837.50 7,737.50 8,250.00                   | Cost \$ 15,800.23 15,904.95 15,964.90                     | 8-10<br>10-12<br>11-13       | Height (inches)                 |                 |
| Vendor  Whilman Electric c/o Sierra Sales  Ward industries, Inc. estern States Electric, Inc.  | Unit<br>Price \$<br>739.00<br>758.00<br>716.00<br>751.00           | Extended<br>Price \$<br>7,390.00<br>7,580.00<br>7,160.00<br>7,510.00    | Price w/tax \$ 7,962.73 8,167.45 7,714.90 8,092.03          | Loss<br>(watts)<br>98<br>93<br>82<br>92 | Loss<br>(watts)<br>333<br>340<br>414<br>364        | No Load<br>Loss value<br>3,675.00<br>3,487.50<br>3,075.00<br>3,450.00                         | Load<br>Loss value<br>4,162.50<br>4,250.00<br>5,175.00<br>4,550.00             | Cost of Losses \$ 7,837.50 7,737.50 8,250.00 8,000.00          | Cost \$ 15,800.23 15,904.95 15,964.90 16,092.03           | 8-10<br>10-12<br>11-13<br>14 | Height (inches)  32 36 37 38    |                 |
| vendor  Vendor  Wendor  Wendor | Unit<br>Price \$<br>739.00<br>758.00<br>716.00<br>751.00<br>860.00 | Extended Price \$ 7,390.00 7,580.00 7,160.00 7,510.00 8,600.00          | Price w/tax \$ 7,962.73 8,167.45 7,714.90 8,092.03 9,266.50 | Loss (watts)  98 93 82 92 77            | Loss<br>(watts)<br>333<br>340<br>414<br>364<br>335 | No Load<br>Loss value<br>3,675.00<br>3,487.50<br>3,075.00<br>3,450.00<br>2,887.50             | Load<br>Loss value<br>4,162.50<br>4,250.00<br>5,175.00<br>4,550.00<br>4,187.50 | Cost of Losses \$ 7,837.50 7,737.50 8,250.00 8,000.00 7,075.00 | Cost \$ 15,800.23 15,904.95 15,964.90 16,092.03 16,341.50 | 8-10<br>10-12<br>11-13<br>14 | Height (inches)  32 36 37 38 23 |                 |
| Sid Item 2: 37.5kVA, 120/240 Volt, Single Phase Converted to 2 will be recommended for award on January 5, 2  Vendor  Kuhlman Electric c/o Sierra Sales Howard Industries, Inc. Western States Electric, Inc. Zentral Moloney, Inc. c/o Stephens, McCarthy, Lancaster SE Supply General Pacific, Inc. WESCO Distribution, Inc.   | Unit<br>Price \$<br>739.00<br>758.00<br>716.00<br>751.00           | Extended Price \$ 7,390.00 7,580.00 7,160.00 7,510.00 8,600.00 8,591.40 | Price w/tax \$ 7,962.73 8,167.45 7,714.90 8,092.03          | Loss<br>(watts)<br>98<br>93<br>82<br>92 | Loss<br>(watts)<br>333<br>340<br>414<br>364        | No Load<br>Loss value<br>3,675.00<br>3,487.50<br>3,075.00<br>3,450.00<br>2,887.50<br>2,925.00 | Load<br>Loss value<br>4,162.50<br>4,250.00<br>5,175.00<br>4,550.00             | Cost of Losses \$ 7,837.50 7,737.50 8,250.00 8,000.00          | Cost \$ 15,800.23 15,904.95 15,964.90 16,092.03           | 8-10<br>10-12<br>11-13<br>14 | Height (inches)  32 36 37 38    |                 |



Bid Opening: November 24, 2004

**Padmount** 

Tax (factor): 1.0775

Primary Winding: 12,000 Volt, Delta Connected

November 24, 2004

No Load Loss \$/watt: 3.75 Load Loss \$/watt: 1.25

| Bid Item 1: 112.5 kVA, 208Y/120 Volt, Th   | ree Phase  | Pad   |   |  |                             | Nu   | mber of units:   | 2  |  |  | 65                               | >2.  |
|--|--|---|---|--|-----------------------------|--|--|--|--|--|----------------------------------|--|
| Vendor   | Unit<br>Price \$   | Extended Price \$   | Price<br>w/tax \$   | No Load<br>Loss (watts)                | Load<br>Loss (watts)        | No Load<br>Loss value  | Load<br>Loss value   | Cost of Losses \$  | Life Cycle<br>Cost \$  | Delivery<br>(weeks)                        | Height (inches)                  | Impedance<br>%                                     |
| WESCO Distribution Howard Industries, Inc. Western States Electric, Inc. G E Supply General Pacific Inc. Central Moloney, Inc. (c/o Stephens, Mc | 3,819.00<br>3,603.00<br>4,149.00<br>4,170.00<br>4,340.78<br>7,014.00 | 7,638.00<br>7,206.00<br>8,298.00<br>8,340.00<br>8,681.56<br>14,028.00 | 8,229.95<br>7,764.47<br>8,941.10<br>8,986.35<br>9,354.38<br>15,115.17 | 289<br>247<br>251<br>257<br>233<br>170 | 1242<br>946<br>1116<br>1055 | 2,167.50<br>1,852.50<br>1,882.50<br>1,927.50<br>1,747.50<br>1,275.00 | 2,092.50<br>3,105.00<br>2,365.00<br>2,790.00<br>2,637.50<br>3,120.00 | 4,260.00<br>4,957.50<br>4,247.50<br>4,717.50<br>4,385.00<br>4,395.00 | 12,489.95<br>12,721.97<br>13,188.60<br>13,703.85<br>13,739.38<br>19,510.17 | 12-14<br>7-9<br>11-13<br>15<br>12-14<br>16 | 44<br>45<br>50<br>48<br>49<br>65 | 2,62(<br>2,300<br>3,95(<br>2,94(<br>3,300<br>2,110 |
| Bid Item 2: 150 kVA, 208Y/120 Volt, Thre   | e Phase P  | ad,   |   |  |                             | Nu   | mber of units:   | 4  |  |  | 65                               | >2.0   |
| Vendor   | Unit<br>Price \$   | Extended Price \$   | Price<br>w/tax \$   | No Load<br>Loss (watts)                | Load<br>Loss (watts)        | No Load<br>Loss value  | Load<br>Loss value   | Cost of Losses \$  | Life Cycle<br>Cost \$  | Delivery<br>(weeks)                        | Height (inches)                  | Impedance<br>%                                     |
|  |  |   | 16,696.94   | 289                                    | 1500                        |  | 7,500.00   | 11.835.00  | 28,531.94  | 12-14                                      | 48                               | 3,650  |

Bid Opening: November 24, 2004

**Padmount** 

Tax (factor):

1.0775

Primary Winding: 12,000 Volt, Delta Connected

November 24, 2004

No Load Loss \$/watt: 3.75

Load Loss \$/watt: 1.25

| Bid Item 3: 300 kVA, 208/120 Volt, Three   | Phase Pag  | i,   |  |                          |  | Nu   | mber of units:  | 3  |  |  | 65                         | >3.5                    |
|--|--|--|--|--------------------------|--|--|---|--|--|--|----------------------------|-------------------------|
| Vendor   | Unit<br>Price \$   | Extended Price \$  | Price<br>w/tax \$  | No Load<br>Loss (watts)  | Load<br>Loss (watts)                         | No Load<br>Loss value  | Load<br>Loss value  | Cost of Losses \$  | Life Cycle<br>Cost \$  | Delivery<br>(weeks)                        | Height (inches)            | Impedance<br>%          |
| Western States Electric, Inc. Howard Industries, Inc. WESCO Distribution General Pacific Inc. G E Supply Central Moloney, Inc. (c/o Stephens, Mc | 5,671.00<br>5,792.00<br>5,248.00<br>6,294.83<br>6,206.00<br>8,328.00 | 17,013.00<br>17,376.00<br>15,744.00<br>18,884.49<br>18,618.00<br>24,984.00 | 18,331.51<br>18,722.64<br>16,964.16<br>20,348.04<br>20,060.90<br>26,920.26 | 530<br>475<br>522<br>610 | 2111<br>2157<br>3067<br>2187<br>2831<br>3930 | 6,041.25<br>5,962.50<br>5,343.75<br>5,872.50<br>6,862.50<br>3,600.00 | 7,916.25<br>8,088.75<br>11,501.25<br>8,201.25<br>10,616.25<br>14,737.50 | 13,957.50<br>14,051.25<br>16,845.00<br>14,073.75<br>17,478.75<br>18,337.50 | 32,289.01<br>32,773.89<br>33,809.16<br>34,421.79<br>37,539.65<br>45,257.76 | 11-13<br>7-9<br>12-14<br>12-14<br>15<br>16 | 50<br>55<br>44<br>49<br>55 | 3.800<br>4.390<br>4.100 |